

Design of capacitor-less LDO regulator with high reliability ESD Protection circuit using analog switch structure for 5 V applications

Sang wook Kwon¹ and yong seo koo¹

¹Dankook University

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Abstract

This letter suggests to the LDO regulator with the high reliability ESD protection circuit that achieves low peak voltage through analog switch structure. The proposed LDO regulator has the function of detecting the output voltage fluctuations depending on the load via an analog switch structure and effectively controlling the peak voltage.